Steam Iron

Service
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HI 510
HI 520
HI 530
HI 540

Philips Domestic Appliances and Personal Care

ServiceManual

PRODUCT INFORMATION

Features	HI 510	HI 520	HI 530	HI 540
pilot light	x	x	x	x
integrated cord winder	x	x	x	x
spray	x	x	x	x
variable steam	x	x	x	x
turbo steam	-	x	x	x
shot of steam	x	x	x	x
vertical steam	x	x	x	x
self-clean	x	x	x	x
ball swivel	-	-	x	x
lenght cord set 2.5 m	x	x	x	x
anti-drip function	x	x	x	x
automatic shut-off	-	-	-	x
anodised soleplate	x	x	x	x

Voltage / frequency : 100, 120 - 127, 220 - 240 V
50 - 60 Hz

Power consumption : 110 - 110 V, 1200 Watts at 100 V
120 - 127 V, 1450 Watts at 120 V
220 - 240 V, 1600 Watts at 230 V

Sole plate temperature : 215 ± 25 °C

Steam output : Variable steam output max. 20 gr/min when :
- slide is set to position 6
- temperature dial is set to position MAX.

Turbo steam output :
Always to be used in combination with the variable steam slide, increases the steam output with max 10 gr/min to a total of 30 gr/min.

Shot Of Steam : 60 gr/min

This product meets the requirements regarding interference suppression on radio and TV.

Turbo steam function :
The steam output of the variable steam function depends upon the position of the slide knob.
When set to postition 6 the steam output is 20 gr/min.
This might be not sufficient. In that case the turbo button has to be pushed down for max 10 sec. Due to this operation the steam output will increase to 30 gr/min.

Vertical steam :
When the iron is kept in vertical position, the s.o.s button can be used to iron hanging fabrics as curtains.

Self-clean function :
When the self-clean button is pushed down, a sudden flow of water is released from the tank into the heated sole plate.
This thermal shock will cause scale particles come loose from the steam chamber. These particles are then flushed out through the steam vents by the water.

Anti-drip :
Water is only released through the tank valve into the steam chamber if the sole plate temperature is high enough to evaporate all water. If the temperature is not hot enough the tank valve is closed by means of the bi-metal disc.

Auto shut-off :
A relay in the electronic module interrupts the power to the heating element when the iron has been motionless in :
- for 30 seconds in horizontal position.
- for 8 minutes in vertical position

The red " Auto off " pilot light starts blinking. **For the 220-240 Volts version only, a sound signal is heard too**.
When the iron is moved again, it's automatically switches on again.
N.B. When the iron is plugged in in horizontal position, it will not be switched off during the first 2 minutes to ensure that it heats up properly.

Real-off function
The movement of the thermostat's bi-metal is limited in downward direction thus will prevent the thermostat contacts from closing at room temperature at MIN setting.

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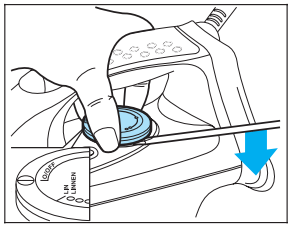
PCS 88 672

PHILIPS

DISASSEMBLY ADVICE

DIAL 1

RATTLE SPRING 2

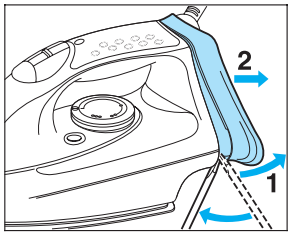


CORD SET 3

BACK PLATE 4

SWIVEL 5

remove **SCREW C 1x**
remove **BACK PLATE 4**



remove **SCREWS**
cord clamping

INLAY 6

OPERATION KNOBS 7

DOOR 8

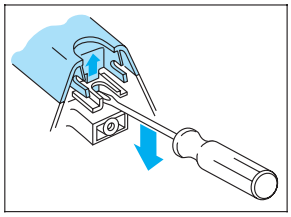
DOOR HOLDER/ DEAIR. BUSH 9

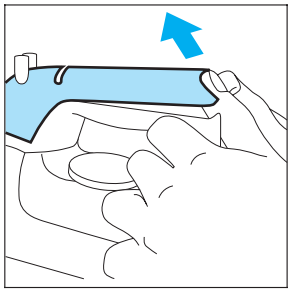
SPRAY UNIT 10

PILOT LIGHT 11

PCB 12

remove **SCREW C**
remove **BACK PLATE 4**
remove **INLAY 6**





SLIDE UNIT 13

NEEDLE 14

remove **SCREW C 1x**
remove **BACK PLATE 4**
remove **INLAY 6**
remove **SCREW A 2x**

HANDLE 15

SPRAY PUMP 16

S.O.S.PUMP 17

TANK 18

SELF CLEAN BUTTONS 19

SEALINGS 22

remove **SCREW C 1x**
remove **BACK PLATE 4**
remove **INLAY 6**
remove **SCREW A 2x**
remove **DIAL 1**
remove **SCREWS**
cord clamping 2x
remove **SCREW B 3x**
remove **SCREW A1 2x**
remove **HANDLE 15**

THERMOSTAT 20

THERMOSTAT PIN 21

SEALINGS 22

COVER 23

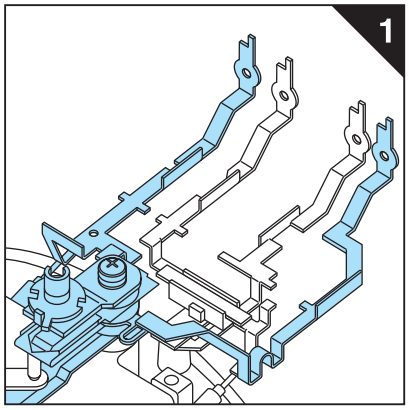
TYPE PLATE 24

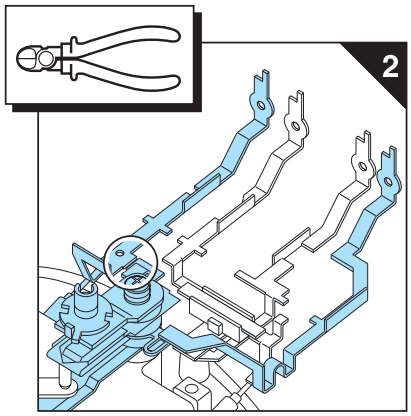
SOLE PLATE 25

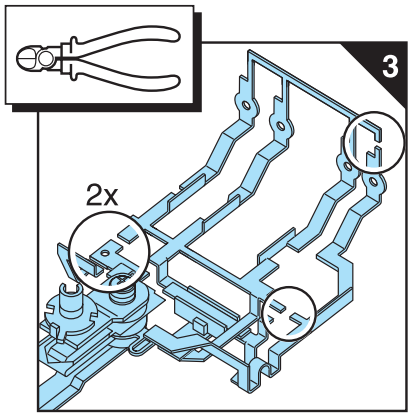
ANTI-DRIP VALVE 26

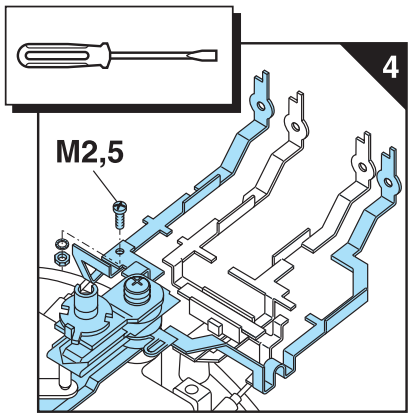
remove **SCREW C 1x**
remove **BACK PLATE 4**
remove **INLAY 6**
remove **SCREW A 2x**
remove **DIAL 1**
remove **SCREWS**
cord clamping
cord set
pilot light / pcb
remove **SCREW B 3x**
remove **SCREW A1 2x**
remove **HANDLE 15**
remove **SCREW F 3x**

Replacement Thermostat see fig.1-4



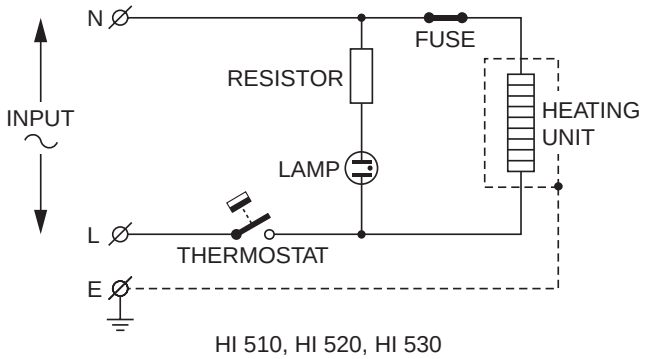




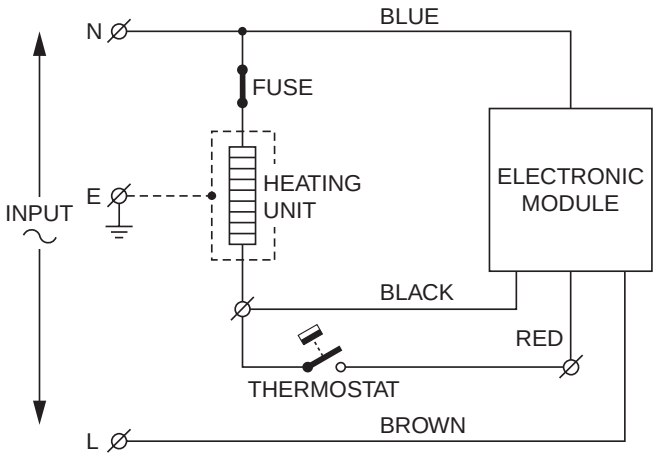


PARTS LIST

Pos	Description	Consisting of	Service Code
1	dial	101,102,103	4822 310 11019
2	rattle spring		4822 310 11021
3	cord set EURO		4822 321 11329
	cord set UK		4822 321 11331
	cord set flat pin plug		4822 535 10482
	cord set China plug		4822 321 11332
4	back plate HI 510/520		4822 426 10464
	back plate HI 530/540		4822 426 10465
5	swivel HI 510/520		4822 325 80505
	ball swivel HI 530/540		4822 310 11022
6	inlay HI 510 - HI530	104,105	4822 310 11023
	inlay HI 540	104,105	4822 310 11024
7	set operation buttons	105,106,107	4822 310 11025
8	door		4822 443 10719
9	door holder / deairing bush	108,109	4822 310 11026
10	spray unit		4822 479 20202
11	pilot light 100 - 240 V		4822 134 10094
12	pcb 100 - 127 V		4822 214 12294
	pcb 220 - 240 V		4822 214 12332
13	set components slide unit	110,111,112,105	4822 310 11027
14	set components needle	113,114,115,116	4822 310 11028
15	handle unprinted		4822 498 10659
16	set components spray pump	10,117,118,119,121	4822 310 11029
17	set components s.o.s.pump	117,118,121,122,123	4822 310 11031
18	set comp.water tank	108,109,124,125,126,127	4822 310 11032
19	set comp. self clean button	125,126	4822 310 11033
20	thermostat		4822 282 10315
21	thermostat pin		4822 535 93322
22	set sealings	127,128,129,130	4822 310 11034
23	cover		4822 442 00989
24	type plate unprinted		4822 454 13229
25	sole plate + thermostat 220-240 V	130,131	4822 259 10269
	sole plate + thermostat 120-127 V	130,131	4822 259 10271
	sole plate + thermostat 100-110 V	130,131	4822 259 10272
26	set comp. anti-drip valve	127,131	4822 310 11035
27	cord clip		4822 401 11193

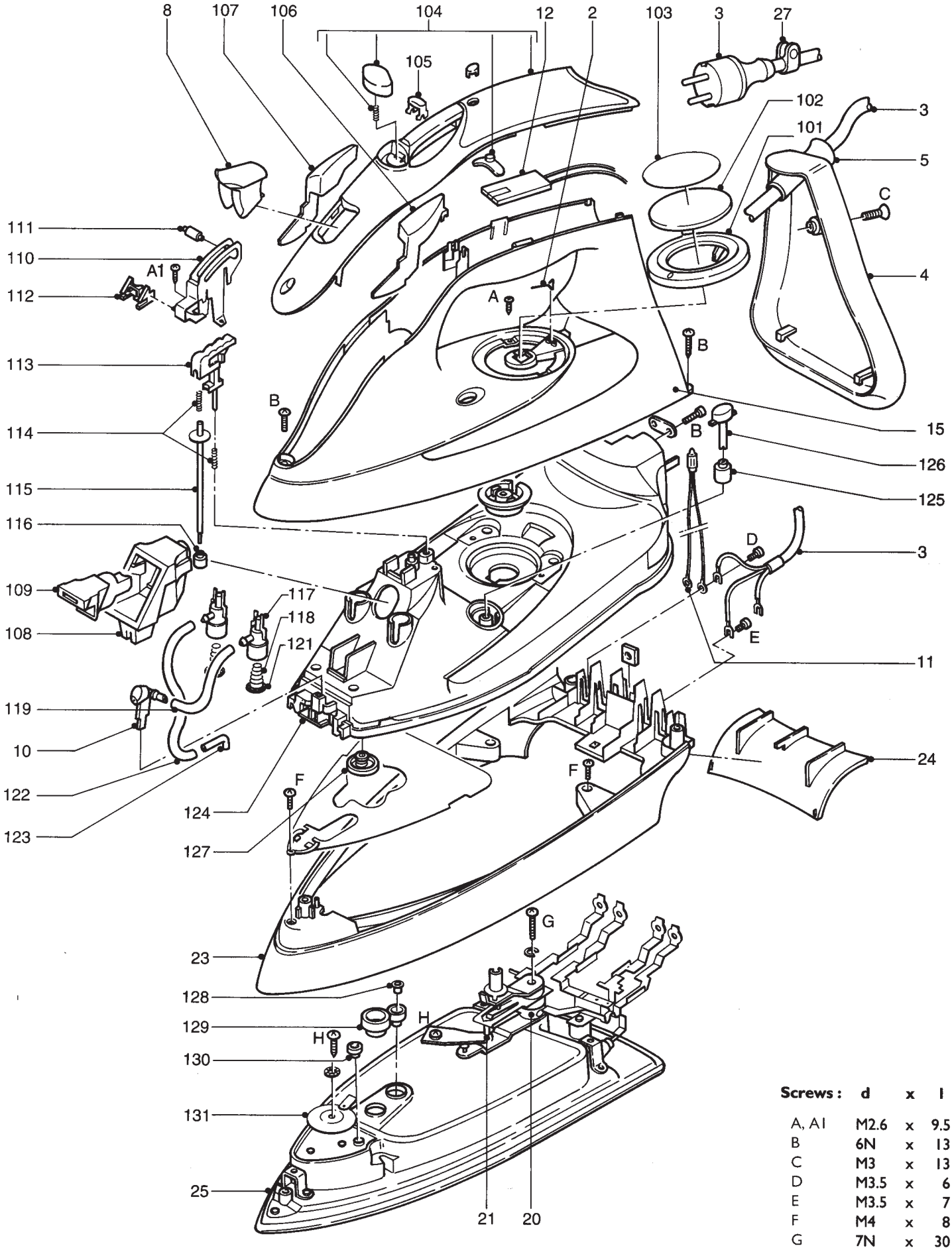


HI 510, HI 520, HI 530



HI 540

EXPLODED VIEW HI 510 / HI 520 / HI 530 / HI 540



Screws :	d	x	l
A, A1	M2.6	x	9.5
B	6N	x	13
C	M3	x	13
D	M3.5	x	6
E	M3.5	x	7
F	M4	x	8
G	7N	x	30
H	8N	x	13

PCS 88 674

IMPORTANT + ADJUSTMENT AND CONTROLS

IMPORTANT

Due to the high wattage of the iron, only the specified cordsets must be used.

NOTES :

1) For standardisation reasons :

Dial	**:**	**With english / spanish text only.**
Rattle spring	**:**	**5 pieces will be supplied when ordered.**
Inlay	**:**	**For the HI 510/520 and HI 530 the inlay of the HI 530 will be supplied. The inlay of the HI 530 fits perfect onto the HI 510, which doesn't have a turbo button. By doing this, the turbo steam feature will be automatically added to the HI 510 steam feature.**
Operation buttons	**:**	**Only available in colour white.**
Water tank	**:**	**Only available in colour green.**
Type plate	**:**	**No info about the type number and voltage have been stamped into the typeplate. When replacing the type plate, engrave at least type number and voltage into the type plate with a sharp object.**

2) Parts, with numbers from 100 and higher, cannot be ordered separately.

3) After the product has been repaired, it should function properly and has to meet the safety requirements and legal regulations as laid down and officially established at this moment.

ADJUSTMENT AND CONTROLS

Thermostat :

Thermostat 20, fitted to the soleplate 25 has already been adjusted by the supplier and secured by glue.
To avoid malfunction of the iron, **NEVER** readjust the thermostat.

Adjustment thermostat 20, supplied as a spare part.

N.B. Before starting to adjust the thermostat, make sure that a gap exists between the lower tip of the ceramic insulating pin and the real-off bracket. See fig. 1.

Connect the connecting strips to an Ohm-meter.
Set the thermostat stopper to the position as indicated in fig. 2.
Turn the adjusting screw (R) clockwise or anti-clockwise until the Ohm-meter indicates " 0 ".
(The contacts are closed)
Then turn the adjusting screw clockwise until the Ohm-meter indicates ∞ and the contacts have only just been opened. You hear a " click ".
While loosely turning the thermostat stopper, check if the thermostat switches in the position as indicated in fig. 2.

After the thermostat has been adjusted, adjust the real-off bracket.
Set the thermostat stopper in the position shown in fig. 3.
The thermostat contacts are closed. (Ohm-meter indicates " 0 ")
Turn the set-screw S clockwise until the contacts have only just been opened.
The Ohm-meter indicates ∞.
Secure the adjusting screws with a glue.

After adjusting the thermostat, always check the temperature of the soleplate, with the dial set to MAX. position (215 ± 25 °C)

For location of testing point, see fig. 4.
The temperature must be measured, after the iron has been connected to the mains for at least 15 min.
The max. temperature shall not be higher than 240 °C.